



PRODUCT DATA SHEET

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MASONRY

SikaMur®-104 InstaBlok

TYPE S MASONRY MORTAR

Description	SikaMur®-104 InstaBlok is a ready-to-use Type S mortar incorporating GU-type hydraulic cement, graded silica sand and other specifically selected additives. Specially formulated for interior/exterior concrete block laying applications, SikaMur®-104 InstaBlok meets CSA A179-04 requirements.
Where to Use	<ul style="list-style-type: none"> For laying concrete blocks. Masonry façades.
Advantages	<ul style="list-style-type: none"> Excellent resistance to freeze-thaw cycles. Increased bond strength. Great workability. Meets CSA A179-04 requirements.
Technical Data	
Packaging	30 kg (66 lb) bags
Colour	Grey
Yield	0.016 m ³ (0.6 pi ³) or 12 blocks approx. (± 1 block/ft ²) per 30 kg (66 lb) bag
Shelf Life	12 months in original, unopened bag. Store dry, ensuring that product is not exposed to rain, condensation or high humidity.
Mix Ratio	4 L (1.05 US gal.) of potable water per 30 kg (66 lb) bag
Properties at 23 °C (73 °F) and 50 % R.H.	
Compressive strength ASTM C109	24 hours: > 1.0 MPa (> 145 psi) 3 days: > 7.5 MPa (> 1085 psi) 7 days: > 10 MPa (> 1450 psi) 28 days: > 12.5 MPa (> 1810 psi)
Setting time ASTM C191	Initial: 3 hours approx. Final: 5 hours approx
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>	

HOW TO USE

Surface Preparation	Substrate and surfaces in contact with the mortar must be clean and sound. Remove any grease, disintegrated or friable materials and any other bond-inhibiting matter in order to provide a good adherence between the mortar and the construction elements. Make sure that the ambient temperature is between 8 and 35 °C (46 and 95 °F) and that the product is preconditioned within this temperature range for at least 48 hours before the application.
Mixing	Pour 4 L (1.05 US gal.) of potable water in a clean mortar mixer; start mixing and slowly add the entire content of the 30 kg (66 lb) bag in the mixer. Mix for three (3) minutes or until a homogeneous and workable mix is achieved. Let the material stand for two (2) to five (5) minutes and resume mixing for one (1) additional minute. Should a colouring agent be added to the mix, add the colorant to the mixer and continue mixing for five (5) to ten (10) additional minutes or until the desired and uniform colour is obtained.
Application	<p>Installation</p> <p>It is always recommended to wet blocks or other masonry elements requiring high compressive strength prior installation. Using a mason trowel spread an even bed of mortar on the precedent row of blocks or elements and apply mortar to the extremity of the element. Lay the element in the bed of mortar and tap it in place to ensure its alignment and level. Do not add water to the mixed mortar once the laying process has started. Mortar should be used within 1 ½ hours following mixing if temperature is higher or equal to 24 °C (77 °F). Discard any unused mortar.</p> <p>Protection</p> <p>Protect the surface from sun, wind and rain. Maintain temperatures between 8 and 35 °C (46 et 95 °F). Protect from cold for the next 72 hours.</p>
Clean Up	Clean all tools and equipment immediately after use with water. Once hardened, material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- **Important:** protect stored material from exposure to rain, condensation and high humidity as moisture may penetrate packaging, causing lumps which makes the product unusable.
- Do not add water to the mixed mortar once the application has started.
- Use only potable water and do not overwater.
- Mortar should be used within 1 ½ hours following mixing if temperature ≥ 24 °C (77 °F). When exposed to lower temperatures, the delay to use the mortar will be prolonged.
- Do not apply mortar on frozen construction elements.
- Always mix complete units (bags).
- The use of additive or admixtures is not recommended. Please contact Sika Canada for more details.
- SikaMur®-104 InstaBlok is not designed for repointing work, use instead SikaMur®-103 RestoJoint.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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